BRUHATH BANGALORE MAHANAGARA PALIKE

Yelahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work :- Annual Maintenance and repairs of street lights in ward no 04 Package 1 -04 of Yelahanka Zone

Name of Contractor or nature of Agency:-M/S Surekha Electricals

Job Code No:-Ele-22-00311

Ref no and Date of commencement of work:- BE/Ele/YLK/AMC/2022-23 Date:-01/04/2022

Aggrement No & date:-

Measurement Book No:- Page No:-

Bill NO :- 12th RA Bill Bill Period : 01-11-2023 to 30-11-2023 (for 1 months)

Sl. No.		Unit	Period in Months	Present Measurements		
				Qty	Tender Rate Rate	Cost
1	Operation and Maintenance of street lighting system including replacement of damaged/defective/used out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters and switching ON/OFF of street lights at specified timing and Pole numbering. Preparing ward wise, street wise data bank furnishing maintenance reports every day etc. complete so as to ensure efficient burning of street lights detailed in tender documents for 36W LED fluorescent tube light street lighting systems	Each	1	0	31.12	0.00
2	Operation and Maintenance of street lighting system including replacement of damaged/defective/used out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters and switching ON/OFF of street lights at specified timing and Pole numbering. Preparing ward wise, street wise data bank furnishing maintenance reports every day etc. complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPSV light Pole lighting systems	Each	1	0	63.82	0.00
3	Operation and Maintenance of street lighting system including replacement of damaged/defective/used out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters and switching ON/OFF of street lights at specified timing and Pole numbering. Preparing ward wise, street wise data bank furnishing maintenance reports every day etc. complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV street light lighting systems	Each	1	2198	100.83	221681.34
4	Operation and Maintenance of street lighting system including replacement of damaged/defective/used out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches, wires, Holders, Starters and switching ON/OFF of street lights at specified timing and Pole numbering. Preparing ward wise, street wise data bank furnishing maintenance reports every day etc. complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPSV street light High Mast lighting systems	Each	1	0	88.17	0.00

5	Operation and Maintenance of LED Street lighting system including replacement of damaged/defective/ out components like LED drivers MCPCB surge protective device switches, Wires Holders, Sensors observing weather proofing technic conforming to IP 66 standards and switching ON/OFF of Street lights at specified timing and pole numbering Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc., complete so as to ensure efficient burning of Street lights detailed in Tender documents for 24 watt LED park lighting system	Each	1	2	73.33	0.29
6	Operation and Maintenance of LED Street lighting system including replacement of damaged/defective/ out components like LED drivers MCPCB surge protective device switches, Wires Holders, Sensors observing weather proofing technic conforming to IP 66 standards and switching ON/OFF of Street lights at specified timing and pole numbering Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc., complete so as to ensure efficient burning of Street lights detailed in Tender documents for 65 watt LED street light lighting systems	Each	1	30	26.16	9.525
7	Operation and Maintenance of LED Street lighting system including replacement of damaged/defective/ out components like LED drivers MCPCB surge protective device switches, Wires Holders, Sensors observing weather proofing technic conforming to IP 66 standards and switching ON/OFF of Street lights at specified timing and pole numbering Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc., complete so as to ensure efficient burning of Street lights detailed in Tender documents for 90 watt LED street light lighting systems	Each	1	1034	114.62	118203.08
8	Operation and Maintenance of LED Street lighting system including replacement of damaged/defective/ out components like LED drivers, MCPCB surge protective device switches, Wires Holders, Sensors observing weather proofing technic conforming to IP 66 standards and switching ON/OFF of Street lights at specified timing and pole numbering Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc., complete so as to ensure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system	Each	1	45	331.36	27100.78
9	Operation and Maintenance of LED Street lighting system including replacement of damaged/defective/ out components like LED drivers MCPCB surge protective device switches, Wires Holders, Sensors observing weather proofing technic conforming to IP 66 standards and switching ON/OFF of Street lights at specified timing and pole numbering Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc., complete so as to ensure efficient burning of Street lights detailed in Tender documents for 150 watt LED street light /high mast lighting system	Each	1	2	165.68	0.00

10	Painting of existing street light pole, after thoroughly removing the rust and dust by wire brushing, one coat of primer and two coats of synthetic enamel paint including scaffolding etc complete as per the direction of the Engineer-in-charge.	Nos.	-	0	356.00	0.00
11	Painting of existing street light door after thoroughly removing the rust and dust by wire brushing, one coat of primer and two coats of synthetic enamel paint including scaffolding etc complete as per the direction of the Engineer-in-charge.	Nos.	-	0	779.00	0.00
12	Supplying and fixing Modified Case Circuit Breaker (MCCB) over the existing switchgear board using necessary screws nuts bolts, necessary probe connections, bending and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS 13947. (I_{cu} = as per Design) 100Amps 25kA	Each	-	0	4500.00	0.00
13	Supply and Installation / Fixing / Erection of Pole box with DPC Plate / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Copper & Lugs (All terminals for 10 Sqmm / 25 Sqmm 3.5 C Alum / Cu / Al Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC insulated cable, enclosed in a Thermoplastic Polystyrene enclosure which should be shock proof, safe, IP65 Weather Proof, rust proof, dust proof, water proof having internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic polyamide glands and/or grommets 2*(Sqmm)2*(5mm+1)mm	Each	-	0	2054.00	0.00
14	Supply of LED floodlight luminaire with exposure per post aluminium housing body for robust thermal dissipation 3 mtr pole mounted complying of anti glare clear diffuser with injection moulded polycarbonate/tempered glass material, halogenfree wiring with output flexible for looping out 220/240 Vac of circuit Microcontroller based, CRI > 150lm/W, IP 66 rated and electrical components & metal structural components > IK08, Power Factor >0.9 adjustable, Surge Protector: Min 6kV rating with Over voltage Overload short circuit reverse polarity protection Compatible for pole mounting with metal body aluminium body, Operating voltage range from 180V to 270V 50Hz/Hz application Compliance to IS 16102 part 2/2012, LM79 & LM80 Performance certified, UL approved MCPCB Top coated powder light grey paint with matte finish of thickness as per light box material with galvanized hooks, UV Light Resistant with Stainless Steel fasteners, LED Efficacy >100lm/W, minimum Operating temperature range -10 to +50 deg centigrade, BIS Approved by MoEF&CC, Energy & Design & Development center by DST, 2016, Warranty 5 years with Supplier and mark from reputed Companies, Engraving on the die cast housing Body part, Warranty of 2 years against any manufacturing defect during normal use of product, Instructions for mounting, cable should be given by LED manufacturer & Overflow connection/chain made LED Source (4 to 5) Wattage 240V	Nos.	-	0	15400.00	0.00
15	Supplying and fixing single pole frame work fabricated out of M.S. angle iron and M.S. flat, with nuts, washers etc. and painted with 2 coats of red oxide and then two coats of approved shade. Aluminium	Mtr	-	0	353.00	0.00

16	Supply and fixing of spout power connector with 16/32A connector on existing weatherproof board using necessary cables, nuts, washers and wiring etc. complete with AC-3 testing and as per IS-13947-1993 to 125Amps	Nos	-	6	7250.00	0.00
17	Supplying and fixing Weatherproof Turret Thermoplastic Meter Cabinet with using necessary bolts, nuts and washers.	Each	-	0	4000.00	0.00
18	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve indicator DIN/IEC, energy class-3 with Short circuit breaking capacity of 10K and complete wiring as required conforming to IS 8828 10-63 Amps SP	Each	-	0	725.00	0.00
	TOTAL Rs					311582.86
	Add GST 12 % on items 15 to 17			12%	37389.94	274192.92
	TOTAL Rs			10%	0.254.13	323947.86
	Fire proposal for non working of street lights for the period of 01/12/2022 to 10/01/2023					4000.00
	As per street light agreement clause 2% will be deducted of monthly maintenance bill against the collected scrap material					6401.95
	GRAND TOTAL					313076.49

CERTIFICATE

1. This is to certify that the work done is satisfactorily.
2. This is to certify that the bill amount claimed in this bill does not claimed in any of the previous bill.

Asstt. Engineer(Elec)
Maintenance Division

Asstt. Engineer
Maintenance Division

Executive Engineer (Elec.)